

Athletics continues tradition of academic excellence

Matt Gutsch

Every year, a growing number of Canadian Interuniversity Sport student athletes are recognized as Academic All-Canadians, having maintained an average of 80 per cent or better over the academic year while competing for one or more of their university's varsity teams.

University of Alberta Athletics has 124 All-Canadians in the 2010–11 season, just three back of Laval University (127). The U of A now boasts 1,966 AACs, which is good enough for second place since the CIS began keeping track in the early 1990–91. Ian Reade, director of athletics at the U of A, says what separates the Golden Bears and Pandas from McGill, the historical CIS academic all-Canadian leader with more than 2,000, is the fact that Alberta has won 60 CIS championships in its history, while McGill has only three.

"What is really noteworthy is the combination of athletic and academic successes. Either one by itself is significant, or worthy of celebration, but meeting the highest standards in both athletic performance and academic performance is what sets the University of Alberta Golden Bears and Pandas apart in CIS," said Reade.

Alberta also leads the field in Canada West, with more all-time AACs than the universities of Calgary (1,365), UBC (893), Manitoba (940), Saskatchewan (796), Victoria (509), Regina (501), Winnipeg (327), Trinity Western (174), Thompson Rivers (43) and Fraser Valley (31). The University of Alberta's 124 Academic All-Canadians represent 10 different faculties at the U of A, as well as 20 of the 21 CIS Golden Bears and Pandas athletic teams.

Canada West accounted for 596 of those 2,398 Academic All-Canadians, and the U of A accounted for 21 per cent of those 596.

Athletics will honour their student athletes at a banquet in November. Details of the banquet will be announced soon. ■



The Centennial Centre for Interdisciplinary Science was officially opened Sept. 23.

Floored by CCIS

Richard Siemers

CCIS gives boost to collaboration with grand opening

Folio staff

The University of Alberta has officially opened the Centennial Centre for Interdisciplinary Science, a state-of-the-art 50,000-square-metre facility specifically designed to foster an interdisciplinary approach to research, teaching and discovery.

The CCIS provides more than 6,000 undergraduate science students with unprecedented access to laboratories and world-class professors through a design that promotes interdisciplinary science. The building pulls together five research groups in the same facility with scientists in the fields of nanostructures and new materials, integrated earth landscape management, chemical biology and proteomics, planetary dynamics and resources geosciences, which will now be researching, innovating and discovering side-by-side.

"This is a new day for collaborative scientific research and this is its new home," said Gregory Taylor, dean of

the Faculty of Science at the opening Sept. 23. "The Centennial Centre for Interdisciplinary Science solidifies the University of Alberta's Faculty of Science as one of the top faculties of its kind in the country, if not the world."

The new science building provides space for the increase in the number of students and researchers resulting from a growth in the number of science

programs. Its construction creates 2,200 new lecture theatre seats, 648 lab seats and 230 computing lab seats. There is also research space for 1,100 researchers.

"Simply put, the Centennial Centre for Interdisciplinary Science marks an opportunity to take education and research to a new level in Alberta—to build scientific infrastructure that rivals the best in the world," said President Indira Samarasekera. "We're opening this incredible facility because of transformative investments by the Government of Alberta, and today is our opportunity to say thank you."

The construction of the building is due in large part to a more-than

\$430-million investment by the Alberta government in 2006. "This project was one of the first post-secondary investments our government made after I became premier. It's wonderful to see it come to fruition as a world-class research and teaching facility," said Premier Ed Stelmach, who was in attendance for the grand opening. "This is an investment in learning and in people, and I expect it will pay big dividends in future scientific discoveries that will happen here, in Alberta, but whose impacts will be felt around the globe."

The building cost more than \$465 million to construct and took four years to complete. Its open-air concept creates transparency, which defines both

the philosophical underpinnings and architectural design of this building, according to its designers. Of special note is the fifth floor of the building, which features an observatory with three telescopes used for both research and to educate the community at large about science and the solar system.

Thirty per cent of the CCIS is below ground, limiting the building's impact on green space on campus. The terrazzo floor, created by artist Scott Parsons, contains equations, symbols and icons from science disciplines taught in the centre. The centre is being considered for silver LEED (Leadership in Energy & Environmental Design) certification. ■

Staff playwright up for theatre prize

Isabela Varela

Greg MacArthur, the playwright-in-residence at the University of Alberta's Department of Drama, has been named as one of six finalists for Canada's largest award in theatre, the \$100,000 Siminovitch Prize.

Continued on page 2



Greg MacArthur at work. (Supplied photo)



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Killam winner calculated right when choosing the U of A

Brian Murphy

For his work crunching numbers to provide a host of wildlife populations with a formula for survival, Mark Boyce has been awarded a 2011–2012 Killam Annual Professorship.

Boyce, a biological sciences professor, was recognized with a Killam award for his body of research and teaching work since coming to the U of A in 1999. Boyce



Mark Boyce

has had a distinguished career creating mathematical and simulation models of ecological systems, primarily at the population level for conservation and management.

Boyce credits his research and teaching success to his decision to come to the U of A 12 years ago.

"I've been fortunate at the University of Alberta to attract exceptional graduate students who have helped to build the strongest conservation biology research group in Canada and

among the best in the world."

Boyce says his U of A research has focused on the interface between habitat modeling and population biology. That focus led Boyce to investigate a wide variety of Alberta animal species including grizzly bears, wolves, cougars and birds, such as Northern Spotted Owls and Western Grebes.

"I believe my career has flourished at the U of A," said Boyce, who has published more than 110 peer-reviewed journal papers and dozens of magazine columns, book chapters and government reports.

Boyce says one of his most important research subjects has been the sage

grouse. "Our study showed that in southeastern Alberta the greater sage grouse is just a few years away from extirpation due largely to habitat lost to oil and gas developments," said Boyce.

Boyce occupies a chair in fisheries and wildlife endowed by the Alberta Conservation Association. Throughout his career, Boyce says he's made efforts to reach out to a very important, non-academic audience writing columns for various sportsmen publications.

"Our scientific publications are usually inaccessible because they are too technical or not widely distributed, but it's important make research available to the people who need it," he says. ■

Spirit of Killam family's vision alive and well at the U of A

Folio Staff

The Killam Trustees and the University of Alberta hosted a luncheon at the Faculty Club on Oct. 3 to honour recipients of the 2011–2012 Killam Awards.

The Killam Awards are part of the Killam Trust, which was established in 1967 by Izaak Walton Killam and his wife Dorothy Johnston Killam to help build Canada's future by encouraging advanced study. Since then, the value of the Killam endowments to the U of A has been \$90 million.

Provost and Vice-President (Academic) Carl Amrhein, who co-hosted a luncheon with Lorne Babiuk, vice-president

dent (research) and Mazi Shirvani, vice-provost and dean of the Faculty of Graduate Studies and Research, welcomed Killam Trustees George Cooper, John Matthews, Ann McCaig and John Montalbano to the university as well as Eliza Killam, a student enrolled at Campus Saint-Jean, who represented the Killam family.

"The bequest to our institution by Izaak and Dorothy Killam continues to provide an important source of funds for various programs and scholarships," said Amrhein. "We very much appreciate this chance to publicly highlight the generosity of the Killams and their devotion to advancing scholarship across all disciplines, and to thank the Killam Trustees for their careful management of these funds." ■

Izaak Walton Killam Memorial Scholars awards are presented to outstanding doctoral students:

- Victoria Arbour, biological sciences
- Saman Atapattu, electrical and computer engineering
- Joshua Freistadt, sociology
- Nicholas Jendzjowsky, physical education and recreation
- Evelyn Micelotta, business
- Andrew Milne, mechanical engineering
- Leslie Robinson, secondary education
- Vincent Sauer, electrical and computer engineering
- Stefanie Vogt, biological sciences
- Maya Seshia, political science

The Dorothy J. Killam Memorial Graduate Prizes are awarded to the most outstanding Killam Memorial

Scholarship recipients:

- Megan Hight, anthropology
- Nicholas Jendzjowsky, physical education and recreation
- Andrew Milne, mechanical engineering
- Stefanie Vogt, biological sciences

The Izaak Walton Killam Memorial Postdoctoral Fellowships are presented to outstanding PhD graduates:

- Meghan Azad, pediatrics
- Mahmud Khan, physics
- Silvia Pasquetti, sociology
- Mark Dickens, religious studies (also received the Dorothy J. Killam Memorial Postdoctoral Fellow Prize, which is awarded to the outstanding Killam

Postdoctoral Fellowship recipient)

Resource economics and environmental sociology professor Naomi Krogman received the Killam Award for Excellence in Mentoring.

2011-12 Killam Annual Professorships:

- Tayfun Babadagli, civil and environmental engineering
- Mark Boyce, biological sciences
- Abdulhakem Elezzabi, electrical and computer engineering
- André Grace, educational psychology
- Kevin Haggerty, sociology
- Jan Jagodzinski, secondary education
- Robert Smith, history and classics
- Frederick West, chemistry

Research finds window for treatment of strokes

Raquel Maurier

Stroke victims may have a longer window of opportunity to receive treatment to save their brain cells, a literature review published by University of Alberta medical researchers in *Lancet Neurology* demonstrates.

The review, published online Sept. 20, was written by Ashfaq Shuaib and his colleagues, including Ken Butcher, a professor of neurology. Shuaib, the senior author, is a researcher in the Division of Neurology with the Faculty of Medicine & Dentistry. He is also a practising neurologist and a stroke specialist.

Shuaib reviewed the last 30 years of stroke studies that examined the use of imaging to measure blood flow in the brain after a stroke. His review states that using advanced neuroimaging, such as multi-dimensional brain CT scans and MRIs, can provide physicians important information about blood flow in the brain following a stroke. This information could enable doctors to provide better treatment to prevent brain cells from dying through using techniques to increase blood flow in the brain.

The study found that the presence of good "collateral" blood flow in the brain can "sustain brain tissue for hours" after major arteries to the brain have been affected by a stroke, and this flow could potentially offset injury to the brain. Enhancing or maintaining strong blood flow is a potential therapeutic treatment for stroke; it is currently under investigation in several stroke centres around the world, says Shuaib.

His review notes that stroke is the second most-common cause of death, with the majority of the 16 million cases happening in developed nations. A lack of blood flow is the primary cause of a stroke. It is typically triggered by a blockage in a brain artery due to arteries narrowing from a build up of plaque, or by a mass from the heart or neck vessels restricting blood flow to the brain.

Normal blood flow in the brain is between 50–60 ml/100g/minute. If someone suffers a stroke and blood-flow levels in the brain fall below 10 ml/100g/minute, brain cells die within minutes of the stroke. However, if blood flow in the brain is between 10–20ml/100g/minute, "the neurons cease function but remain structurally intact and are potentially revivable if

"Don't just say, 'oh this person had a stroke 4.5 hours ago, end of story.' This person may have very good tissue you could treat."

Ashfaq Shuaib

normal blood flow is restored," Shuaib says in the review.

He further adds that brain-cell death after a stroke may not be complete for hours or even days after a stroke, meaning that the window to treat some stroke patients is longer than three hours—the standard timeframe that has been referenced in medicine since the 1990s.

"What we're recommending is to not only look at the window of time, but look at the important tissue window, which may be quite prolonged in many patients," says Shuaib. "Don't just say, 'oh this person had a stroke 4.5 hours ago, end of story.' This person may have very good tissue you could treat." ■

Previously based in Montreal, MacArthur was appointed as the U of A's new Lee Playwright-in-Residence in January 2011. Known for plays that explore themes of identity and escape, focusing on characters that exist on the fringes of society, his residency in the Department of Drama will culminate in a new play, with the work projected to premiere in the 2012–2013 U of A Studio Theatre season.

"Greg MacArthur exemplifies a new generation of Canadian playwrights," says Kathleen Weiss, chair of the Department of Drama. "He is assured of his calling as a playwright and embraces his 'Canadianness'—writing about local, national or international events with equal ease. He is a writer with rare imagination, a vibrant sense of humour and a stunningly acute sense of character."

Among MacArthur's works are *The Decameron or Things We Left Behind* (2011), *Tyland: The Toxic Bus Incident* (2010) and the Jessie Richardson Award-nominated *Recovery* (2006). His critically acclaimed dark comedy *Snowman* (2003) will be staged in Vancouver this November by Rumble Productions.

"I'm thrilled to be nominated for this prestigious award," says MacArthur. "It's an honour, particularly to share this nomination with such a group of talented folk. The fact that this generous award exists at all is reason enough to celebrate." The other nominees are Robert Chafe, Joan MacLeod, Larry Tremblay, Jasmine Dubé and Mansel Robinson. The annual Siminovitch Prize, created in 2001 in honour of philanthropist Lou Siminovitch and his late wife Elinore, alternates in a three-year cycle to celebrate theatre directors, playwrights and designers. For 2011, the award honours a playwright "who has made a significant contribution to the Canadian theatre scene in recent years." The prize will be awarded in Toronto on Nov. 7. ■



Greg MacArthur

Aid more than skin deep

Raquel Maurier

A telehealth project started by a University of Alberta dermatologist just two years ago has expanded into Africa to help patients with infections, burns, anthrax and slow-healing snake bites.

Jaggi Rao, a practicing dermatologist and director of the Dermatology Residency Training Program in the Faculty of Medicine & Dentistry, originally started a teledermatology program known as Consult Derm to help patients suffering from skin problems in northern and rural Alberta and the Northwest Territories.

The program is so successful that about 450 physicians in those regions are accessing the technology. Altogether, the six dermatologists who take part in the program provide 1,500 consults a year.

"The patients, who are too sick or too far away to see a dermatologist, like the program. And the family physicians like the program too," said Rao.

Considering the success of the program here, Rao says he was eager to develop a philanthropic arm of the venture. Rao and third-year medical student Russell Wong created an organization called Telederm Outreach and contacted some philanthropic organizations, including Canadian Physicians for Aid and Relief, about their plan to give free online expertise to help those in third-world countries. The

organization forwarded Rao's contact information to Frank Artress, an American physician in Tanzania, and a partnership was born.

Now, physicians in Africa simply log onto a secure website and note a patient's symptoms and location of the skin condition, and take photos. Rao then logs on and assesses the cases, after which he gives his diagnosis and suggestions for treatment.

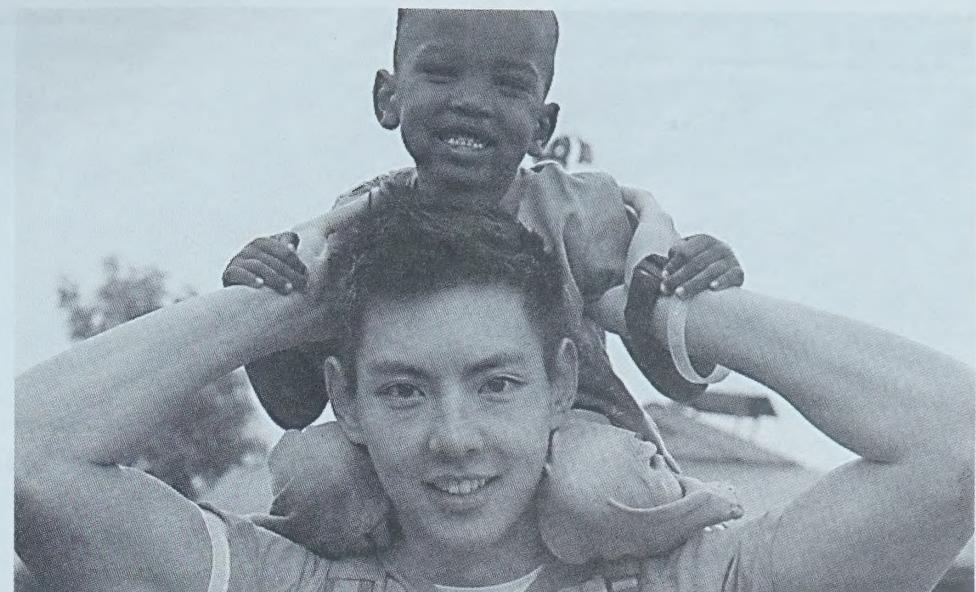
Wong headed to Tanzania this August to train Artress on the teledermatology program and set up the program at a local orphanage. Wong also gathered a list of available medications in Tanzania so that consulting physicians in Canada would know what drugs were available to patients.

"The most common skin conditions I saw were fungal infections of the scalp and torso," said Wong. "When kids get fungal infections on their scalp, they lose their hair, and it's very traumatic for them. They are scared and often stigmatized."

Wong said he also encountered some rare situations that dermatologists typically don't come across.

"I saw a four-year-old child who crawled into bed one night and a snake was there waiting for him, and it bit his thigh," said Wong. "He had major scarring. I saw him six months after he was bit, and the skin still hadn't healed."

Since the system was implemented in the late summer, Rao has already provided numerous consultations to



Russell Wong in Tanzania.

help African patients. Rao and Wong would ultimately like to see this program expand to multiple countries and involve scores of dermatologists who could volunteer one to two hours of their time each month.

"Physicians in Tanzania see lots of skin disorders, and they either don't know what the disorders are or they don't know how to treat the conditions," said Rao, who also uses the program as an opportunity to teach medical residents here about skin conditions common in third-world regions.

"We really want to make a difference, and there is no shortage of opportunities to help." ■

The nation to celebrate innovation at the U of A

Folio Staff

The Ernest C. Manning Awards Foundation, which gives out one of Canada's most prestigious awards for innovation, is celebrating its 30th anniversary at the University of Alberta Oct. 15.

The foundation, named after the former Alberta premier and senator, honours, supports and draws public attention to Canadians with the imagination to innovate and the stamina to succeed.

The foundation's 30th anniversary celebration includes a free day-long Celebration of Innovation Symposium at the Centennial Centre for Interdisciplinary Science.

"As an institution dedicated to leadership in innovation, the University of Alberta is pleased to host the Ernest C. Manning Awards 30th anniversary ceremony," said President Indira Samarasekera, who is one of the keynote speakers at the event.

Joining President Samarasekera as a guest speaker at the symposium are:

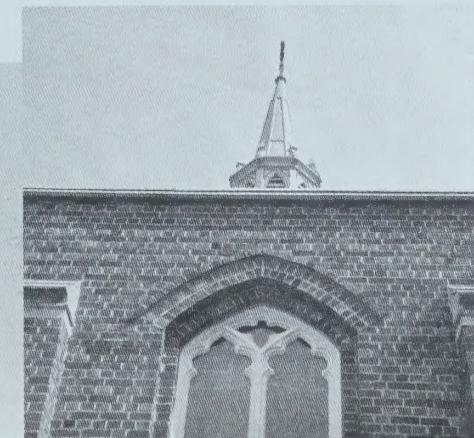
- Manning Laureate Lorne Tyrrell, director of U of A's Li Ka Shing Institute of Virology and former U of A dean of medicine, who is a member of Canada's Medical Hall of Fame for his work identifying the world's first oral treatment for hepatitis B.
- Lynn McMullen, U of A professor and food scientist, is one of Canada's leading researchers of food microbiology. Her research led to the development of Micocin, a natural lactic

acid bacteria approved by Health Canada to add to vacuum-packaged ready-to-eat meats and prevent the growth of pathogenic bacteria causing food-borne disease, such as Listeria.

- Graham Pearson, U of A Professor and Canada Excellence Research Chair in Arctic Resources, is one of the world's leading mantle geochemists in diamond studies and understanding the formation of diamond-forming roots beneath continents.
- Jillian Buriak, U of A Professor of Chemistry and Canada Research Chair in Inorganic and Nanoscale Materials, is one of the world's top experts in semiconductor surface chemistry. Buriak presented her research to the Duke and Duchess of Cornwall during their Alberta visit.
- Manning Laureate Robert Burrell, U of A professor and Biomedical Engineering Canada Research Chair in Nanostructured Biomaterials, invented Acticoat silver-coated wound dressings that use an ancient remedy to speed up healing. Acticoat is thought to be the world's first commercial medical application of nanotechnology.

The symposium will feature displays and networking opportunities with participants of the 2011 Women in Scholarship, Engineering, Science and Technology competition. The event will be moderated by Jay Ingram, host of the Discovery Channel's *Daily Planet*, and a U of A alumnus.

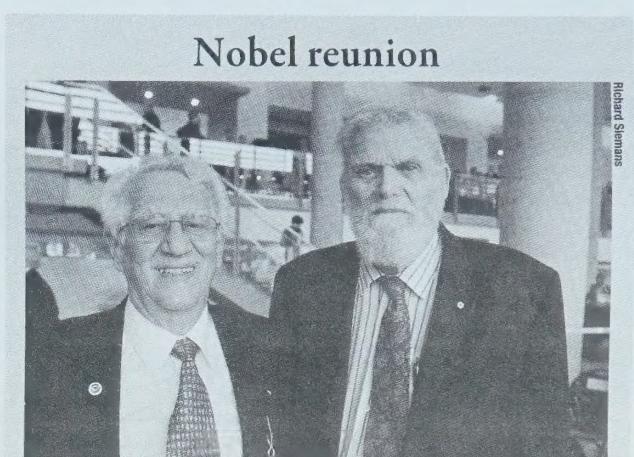
Since it was established, the Ernest C. Manning Awards Foundation has honoured 237 adult and young Canadian award winners and more than 2,500 nominees. ■



Are You a Winner?

Congratulations to Al Kalantar whose name was drawn as part of folio's Sept. 23 "Are You a Winner?" contest. He correctly identified the photo in question as being old printing press located on the second floor of the Fine Arts Building. For his correct identification, Kalantar has won a green U of A golf shirt.

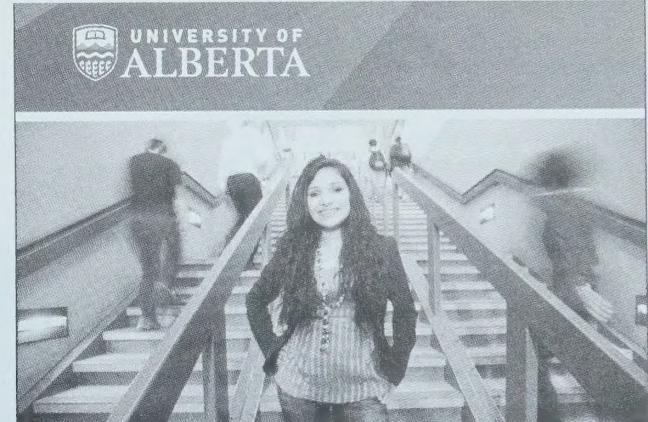
Up for grabs this week is a stainless-steel coffee mug and an impressive U of A bookmark. To win the package, simply identify where the object pictured is located and email your answer to folio@exr.ualberta.ca by noon on Friday, Oct. 14, and you will be entered into the draw.



Nobel reunion

Richard Schnell

University of Alberta alumni and Nobel laureates Russell Schnell (left) and Richard Taylor attended the opening of the Centennial Centre for Interdisciplinary Science Sept. 23. Schnell, who was a co-recipient of the Nobel Peace Prize in 2007 for his work with the National Oceanic and Atmospheric Administration for disseminating greater knowledge about man-made climate change, did his undergraduate degree in biology at the U of A in 1960s. Taylor, who was part of a team that won the 1990 Nobel Prize in Physics for their work helping to develop the quark model in particle physics, graduated with a bachelor of science degree from the U of A in 1950 and a master's degree in 1952.



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In an effort to ensure folio is meeting the needs of its readership, we are asking for just a few moments of your time to fill out a 10 question readership survey.

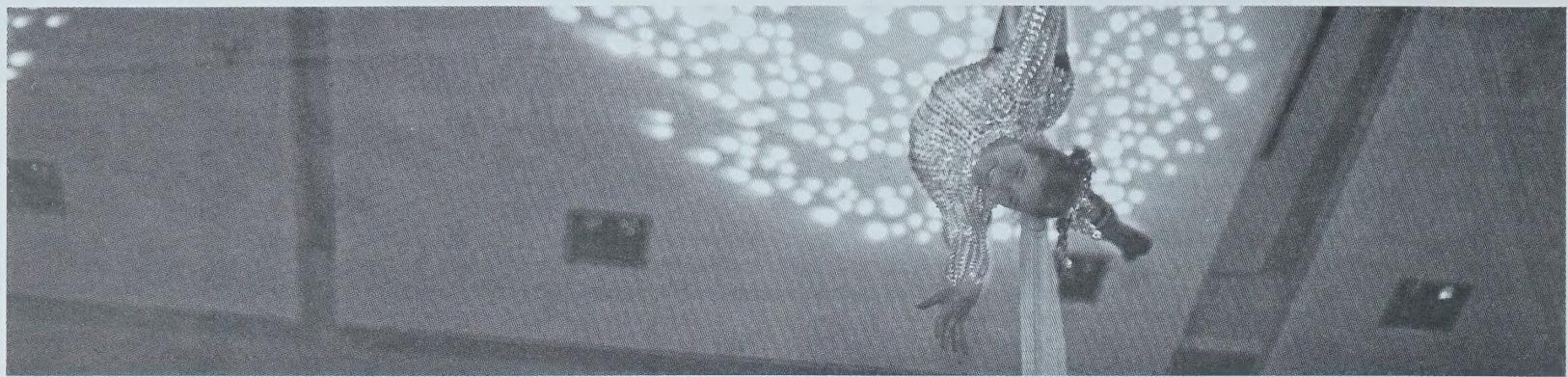
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By participating, your name will be entered into a draw for a number of prizes, including a prized Butterdome butter dish.

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—GEORGE MARSHALL TORY, FOUNDING PRESIDENT, 1908



Alumni Weekend 2011 was a huge success thanks in part to events like Stargazer, which was held at the Centennial Centre for Interdisciplinary Science Sept. 23.

Getting to know 'The Middle Kingdom'

The University of Alberta can be a complicated entity with many moving parts. University 101 exists to assist the campus community to better understand who does what and how things get done at the U of A.

Jamie Hanlon

*University
101*

As China becomes an increasingly dominant political and economic player on the world stage, having resources and experts who can help navigate and explain contemporary China becomes important from an academic, industrial and governmental perspective.

Established in 2005, the University of Alberta's China Institute's mission relates squarely to these ideas. Beyond its responsibility to forge linkages between China-related initiatives and scholarship at the University of Alberta, a large body of its work relates to promoting cultural, scientific and business exchanges. China Institute Director Gordon Houlden says the institute's work varies from providing strategic advice to faculties building academic links in China to supporting the university's China Regional Advisory Council, which provides counsel and advice to senior administration on initiatives in China. But he notes that the institute's role is also increasingly expanding its role and function beyond the boundaries of the academy.

"What we've been trying to do in the China Institute is to create a small think-tank that can provide interpretations of events to stakeholders such as media governments and industrial business partners," said Houlden. The institute's role in these cases, says Houlden, is not to serve as business consultants, but to provide strategic advice and research as needed to industries and government both inside the province and across Canada. It is a role that is keeping the institute increasingly busy, he says.

"This is a role that is developing," said Houlden. "It's really about responding to demand. Interest in China is so keen, especially given their economic relevance to the future of this province, that we find government institutions and industrial associations are coming to us to ask our advice or to obtain our views on particular developments in China."

Houlden notes that some countries draw regularly on university-based think tanks when it comes to public policy formulation. By driving forward public policy-relevant work and research and demonstrating leadership in this area, Houlden believes the China Institute is highly relevant, especially as China's importance for Alberta, and Canada as a whole, grows.

The latest conference held by the institute is one such example, he says. Dubbed "Canada, U.S. and China: Maritime Security Issues," being held in partnership with the U of A's Institute of American Studies and the Canadian Circumpolar Institute, the conference in September drew together representatives from industry, government and academia, as well as senior naval officers from Canada, China and the United States. At issue are the questions of sovereignty, security and international shipping in the South China Sea and the Arctic. Houlden notes that this conference was not a rhetorical exercise, but one that discusses a clear and present concern of international importance.

"These are issues of, quite literally, war and peace and economic prosperity, which are involved in the South China Sea and the Arctic Ocean. This is a hot zone of conflict between large countries who, they feel, have vital economic interests at play," said Houlden. "We are ultimately hoping for solutions and dialogue. That's why we have governments and navy and academics from a whole range of countries."

"I think we need to deal with these over-the-horizon realities, and I think this is why we're able to help draw policymakers and people of operational experience, such as the commander of Canada's Pacific Fleet, to a conference well away from the Pacific shores."



Gordon Houlden helped establish the U of A's China Institute in 2005.

Opening student eyes to new research

Jamie Hanlon

The Undergraduate Research Initiative office is now open and ready to help students become more directly involved in research activities and creative works at the University of Alberta.

The office, operated through CAPS: Your U of A Career Centre and located on the U of A's North Campus, will provide a number of functions to assist undergraduate students to become involved in research on campus. The office will serve as a clearinghouse for students to learn about opportunities on campus—from courses to volunteer lab positions to internships—and a place where they can build awareness and knowledge of skills needed for participation in research.

"We want to help students learn how and why to get involved in research," said Alexis Lockwood, experiential learning co-ordinator for the initiative.

The notion of an undergraduate student research office can trace its roots back to discussions in 2003 on finding ways to integrate teaching and research, says psychology professor Connie Varnhagen, the Undergraduate Research Initiative's inaugural academic advisor. Over the past few years, Students' Union candidates for vice-president

dent (academic), "all ran their campaign on undergraduate research platforms," said Varnhagen. Both Varnhagen and Lockwood note that undergraduate research is part of the institution's academic plan, something that the Students' Union is very much involved in promoting and supporting.



Physically, the initiative's space will also be a venue for lectures, presentations, workshops and student meetings related to undergraduate research, says Lockwood. She says they are looking at establishing drop-in sessions where students can ask research-related questions of graduate students and researchers on campus as well. Lockwood says cultivating that interest in research begins with providing the essential skills to navigate their way into that domain, including how to write a grant application or approach the topic of participating in research with a professor.

"A lot of what we will be working

on is how to approach a faculty member appropriately," said Lockwood. "We hope to bring in sessions on ethics and how it relates to research."

The initiative will also oversee two streams of funding for undergraduate research. One stream will be available for researchers, instructors or graduate students to receive reimbursement for expenses related to research incorporating undergraduate students. Lockwood says the second stream would provide for a stipend for undergraduate researchers.

"That would be to pay them a wage or stipend to cover their costs," she said. "However, they would have to be working with a research supervisor."

While the office's focus is on helping students get involved in research, Lockwood and Varnhagen say faculty still have an important role to play in the success of the venture. Varnhagen says that the establishment of the Undergraduate Research Initiative is a clear sign that inspiring the next generation of researcher can and should happen at the undergraduate level.

"It helps faculty recognize the role that undergraduates play and how we need to be sharing our research with students," she said. "There's lots of ways we can build research opportunities into even [introductory-level] classes."

Provost agrees to seek third term

Folio Staff

Carl Amrhein has decided to stand for a third term as the university's provost and vice-president (academic). As such, as with all vice-presidential reappointments, a presidential advisory review committee will be struck, and will meet on May 8, 2012. This review will give members of the university community the opportunity to contribute to the process.

In addition, President Indira Samarasekera will strike a provost and vice-president (research) portfolio review committee to review the provost's portfolio advances initiatives and strategies. Each of the vice-presidential portfolios undergoes a periodic independent review. The committee will be chaired by the president and vice-chancellor of the University of Saskatchewan, Peter McKinnon. Additional committee members include Dame Alison Richard, former vice-chancellor of

Cambridge University; Martha Crago, vice-president (research) at Dalhousie University; and Adel Sedra, dean of engineering at the University of Waterloo. The committee will meet in Edmonton on March 26 and 27, 2012.

Prior to the end of his second term, Amrhein will take a year-long administrative leave starting July 1, 2012. During Amrhein's leave, Dean of the Faculty of Rehabilitation Medicine, Martin Ferguson-Pell, will serve as the acting provost and vice-president.



We want to know what you were up to this summer

Send folio a high-resolution photo that tells the story of your summer adventures, misadventures or time spent relaxing and we will use it in a future Back Page photo story. Send entries to folio@exr.ualberta.ca by Oct. 31.

Rebuilding a dinosaur head

Brian Murphy

A University of Alberta-led research team has taken a rare look inside the skull of a dinosaur and come away with unprecedented details on the brain and nasal passages of the ancient animal.

Lead researcher Tetsuto Miyashita, a U of A master's student in paleontology, examined the armoured skull of a 72-million-year-old *Euoplocephalus*.

"The skull had been sitting in the U of A's paleontology collection for about 30 years when I found it," said Miyashita. "The skull was broken, but through the opening we got a unique view of the interior



Artist's rendition of a Euoplocephalus.

nasal cavities and details of blood vessels."

Euoplocephalus was a six-metre-long plant eater that lived in what is now Alberta and Montana. Prior to Miyashita's finding of the broken-skull specimen, researchers hadn't been able to see beneath the fused bone plates of *Euoplocephalus' heavily armoured head.*

"With that fossil, we reconstructed what the brain and nasal passage looked like," said Miyashita. The team then put together an even more detailed picture of the dinosaur's brain cavity and interior skull by taking multiple X-ray and CT scans of three undamaged

Euoplocephalus heads.

The researchers concluded that *Euoplocephalus'* brain, although not small by dinosaur standards, could fit in a coffee cup. They also learned something new about what went on inside its head. "The nasal passages were long and looping, which indicates it had a good sense of smell and hearing," said Miyashita. "The inner ear we reconstructed was long, suggesting it was tuned to pick-up low-frequency sounds like a nasal roar."

That feature of the skull interior may have allowed it to hear another *Euoplocephalus'* trumpet-like call from a great distance."

The research paper on *Euoplocephalus* was written by Miyashita, U of A colleague Victoria Arbour, Lawrence Witmer from Ohio University, and was supervised by U of A biology professor Philip Currie. The research was published Sept. 29 in the *Journal of Anatomy.*

Researchers find better catalyst

Brian Murphy

University of Alberta chemistry researchers have discovered an active catalyst that has the potential to improve the efficiency and environmental impact of manufacturing processes used to make products such as agrochemicals and pharmaceuticals.

Steven Bergens, a professor in the Department of Chemistry, led a team that targeted the organic compounds known as amides, which are raw materials used by many industries to make a variety of chemical products.

"We found that combining hydrogen with their new catalyst transforms amides into a variety of desired chemical products efficiently, safely and without producing potentially environmentally dangerous waste," said Bergens.

Bergens says the new catalyst is considered "green" because it produces no byproducts, and it uses hydrogen that

can be produced easily by any industry on site. "Any excess hydrogen remaining after the reaction can be reused or simply burned to generate water and heating energy."

In contrast, Bergens says the current conventional method used by industry requires expensive and dangerous shipping of tons of highly flammable, reactive chemicals by truck or rail. "It also produces large amounts of waste that must be removed at added cost and threat to the environment," he said. Researchers around the world have been working for more than 50 years to find a catalytic system for this vital class of reaction that operates efficiently and produces little to no waste.

The work of Bergens and U of A graduate student Jeremy John was published Sept. 26 in the journal *Angewandte Chemie.*

"The discovery of a cheap catalyst with minimal and reusable waste is a game-changing development for the chemical industry," said Bergens.

Museums offer 21st-century take on art

Jennifer Kuchta

The University of Alberta Museums celebrated Alberta Arts Days on Sept. 30, welcoming visitors to view CODE in the U of A Museums' Gallery A on the main floor of the Telus Centre. People from both campus and the community took in the experimental exhibition, which investigated the use of QR (quick response) codes as an alternative to traditional labels within a gallery setting.

The 28 works, selected from the more than 9,000 works of art and artifacts in the University of Alberta Art Collection, included paintings, prints, drawings and sculptures that represent various approaches that local, national and international artists have explored in producing portraits, images of the Alberta landscape, and works that explore language in a visual context. Highlights included two paintings by famed Canadian Group of Seven painter A.Y. Jackson, a Greg Curnoe sculptural installation, an etching by Rembrandt and a sixth-century bust of the Bodhisattva.

QR coding is quickly becoming more widespread with "mobile tagging" applications common to smartphone



technology, says Jim Corrigan, curator of CODE and the University of Alberta Art Collection. "We're experimenting with ways in which we can create a richer experience for the gallery-goer. The codes transport people to our art records, which offer more in-depth information about the artists and these particular works, as well as acquaint them to our web-accessible database."

Visitors were offered the use of iPads if they did not come equipped with their own smartphones or other code readers. Reactions were mostly favorable, and feedback is now being considered for use of QR codes in conjunction with labels in future exhibitions and with public art on campus.

"We'll be looking at ways to integrate QR codes into more traditional labels in the future," says Corrigan. "We have art on campus that people walk by every day but don't really know anything about. We want to provide useful information about the amazing resources in the campus art collection."

The U of A Art Collections is one of the 28 museum collections in the University of Alberta Museums used daily for teaching, research, and community outreach. Visit www.museums.ualberta.ca for more information.

'Sleeper' stretch a game saver for certain athletes

Laurie Wang

Researchers at the University of Alberta have found that the "sleeper" shoulder stretch is actually just what varsity athletes need to improve shoulder rotation and get back in the game.

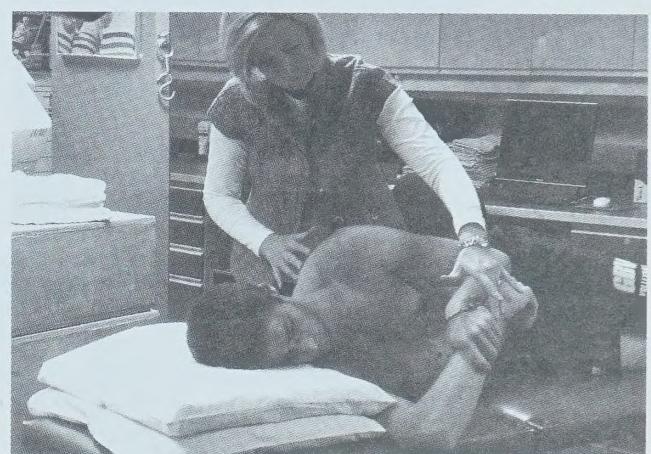
Physical therapist Judy Chepeha, a researcher in the Faculty of Rehabilitation Medicine, compared 66 varsity-level athletes from the U of A's volleyball, tennis and swim teams against 30 non-competitive university students to gauge their shoulder rotation.

The research showed that more than 65 per cent of the varsity athletes had an altered-shoulder rotation pattern known to place some athletes at risk of shoulder injury.

"Tightness in this region of the shoulder has been noted in athletes who participate in repetitive, overhead rotation movements often found in sports such as volleyball, baseball, swimming and tennis," said Chepeha. "It is suggested to be a potential risk factor in the development of shoulder injuries in this population."

Chepeha also tested the effectiveness of the sleeper stretch over an eight-week time period.

The sleeper stretch is performed by lying directly on the side of the shoulder that is to be stretched. The shoulder is bent or flexed to 90 degrees and the



Judy Chepeha demonstrates the sleeper stretch.

elbow is also bent to 90 degrees. The hand of the non-stretching arm is placed just above the wrist, and a gentle pressure is applied in a downward (internal rotation) direction until a "good stretch is felt, but not pain."

"The sleeper stretch is designed to stretch the posterior region of the shoulder, including the posterior joint capsule and rotator cuff musculature," said Chepeha.

Athletes who performed the shoulder stretch showed an 80 per cent increase in shoulder rotation compared to athletes who did not stretch. Also, athletes who used the stretch reported an overall increase in shoulder function

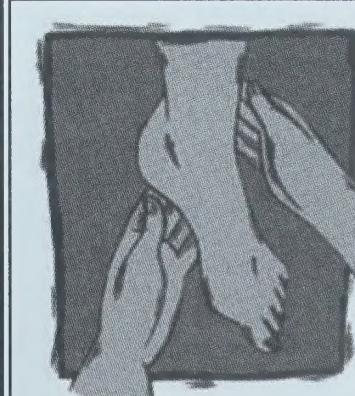
over the eight-week treatment time.

"The sleeper stretch is effective and improvement was reported as early as four weeks," Chepeha says.

Jarron Mueller, a U of A Golden Bears' volleyball player who took part in the study, reported improvements in his shoulder function after performing the stretch.

"You get more shoulder movement and feel more flexible, which is a bonus in sports. Doing the stretch can prevent injuries, which is important because you don't want to miss games due to soreness or stiffness in the shoulder."

Chepeha recently successfully defended this study in her PhD.



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Sustainability on campus takes centre stage

Folio Staff

The University of Alberta and the Office of Sustainability are gearing up for the fifth annual Sustainability Awareness Week, running Oct. 17–23. This year, 30 student groups and campus organizations have joined forces with the Office of Sustainability to produce 50 sustainability-related events designed to celebrate sustainability initiatives on campus and help the university community learn more about environmental, economic and social sustainability.

According to the Office of Sustainability's director, Trina Innes, Sustainability Awareness Week gives many groups a chance to work together to promote awareness of the university's commitment to sustainability.

"By the end of the week, we hope that members of our campus community will have discovered something new about sustainability, made a commitment to adopt a new sustainable practice and encour-

aged others to do the same," said Innes.

Almost all tours, workshops, panels and presentations are free and open to everyone.

Sustainability Awareness Week officially kicks off on Monday, Oct. 17 in Quad on North Campus with a bike-powered concert by Music is a Weapon, an Edmonton-based non-profit organization dedicated to empowering communities through art. Treats will be available between 11:30 a.m. and 1:30 p.m., and students, faculty and staff can learn more about the diverse events happening on North Campus, Campus Saint-Jean and Augustana Campus during the week.

Other events being hosted include green building tours delivered by the lead architects of the Centennial Centre for Interdisciplinary Sciences and the Edmonton Clinic Health Academy. The tours will highlight the features that make the buildings innovative and two of the greenest on campus.

Food events have become a staple during SAW and many offer local, organic options to attendees. Throughout the week, Engrained Café, a new market-style eatery on campus in the new ECHA building, will highlight its local food selections,

“By the end of the week, we hope that members of our campus community will have discovered something new about sustainability.”

Trina Innes

while Augustana Campus will showcase its sustainable food policy by offering a locally-sourced lunch.

This year, SAW has also added a high quality energy-environment talk with a production standard beyond a webinar or classroom lecture. "Think Energy: How Sustainable is the Oilsands in Alberta?" will bring leading experts to Myer Horowitz theatre to present their ideas on the current challenges in Alberta's energy-environment paradigm in a TED Talk-like format. Hosted by the University of Alberta Energy Club and ABCampusTech and sponsored by the Center for Applied Business on Research and Environment, this presentation features speakers that will provide three alternative perspectives on oil sands from the university, government and industry.

For more information about all of the SAW 2011 workshops, tours, discussions and events, please visit sustainability.ualberta.ca/saw.

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Sustainability Awareness Week
October 17 – 23
Society • Environment • Economy

3 campuses. 7 days. 50 events.

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Take part in more than 50 free workshops, tours and events, all hosted by the Office of Sustainability and brought to you by more than 30 student groups and campus organizations.



sustainability.ualberta.ca/saw

Office of Sustainability

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Recycling is a dish best served over and over again

Folio Staff

Sarah Zelman was raised to appreciate nature. She comes from a family who maintains respect for the environment and the natural world, and who work to minimize consumption and waste as much as possible, which she translated into work at Sustain SU, the student sustainability service formerly known as the Environmental Co-ordination Office of Students, or ECOS.

As project co-ordinator for Sustain SU's Reusable Dish Program during the 2010–2011 academic year,



Sarah Zelman does her part as co-ordinator for Sustain SU's Reusable Dish Program.

Zelman volunteered her time to lend out plates in food courts across campus during lunch hours to help reduce the amount of Styrofoam and disposable dishware used at the U of A. Despite being a young program in the 2010–11 academic year, some 12,734 dinner plates were lent out and the program continues to grow in popularity. More than 100 groups and individu-

als rented dishes from Sustain SU last year, up from 60 the previous year.

"The thing that has been the most rewarding about the Reusable Dish Program is how much use increased last year," said Zelman. "The Reuse-a-Dish program in the SUB cafeteria became much more popular, and our event rental program was continuously booked to capacity."

Sustainability central to ECHA's mission

Folio Staff

As the Edmonton Clinic Health Academy begins to come on line and fulfil its destiny as state-of-the-art enabler of integrated, patient-centred clinic care, education and research, it is also good to know that the centre will accomplish another of its missions: to be as sustainable as possible.

Sustainable Site

- Connection to LRT, existing infrastructure and proximity to open space.
- Landscaping and treatment to exterior surfaces to reduce stormwater runoff, heat-island effect and light pollution.
- On site bicycle storage, and change rooms, for cyclists.

Water Efficiency

- Local and low maintenance vegetation that use less water for irrigation.
- High-efficiency fixtures and low-flow toilets to reduce water use.
- Low-flow faucets with infrared flow sensors.

Energy and Atmosphere

- Building designed to achieve LEED Silver Certification. (The building is currently going through the designation process.)
- Natural ventilation—use of outdoor air flow into building to provide ventilation and space cooling.
- Displacement ventilation—an air

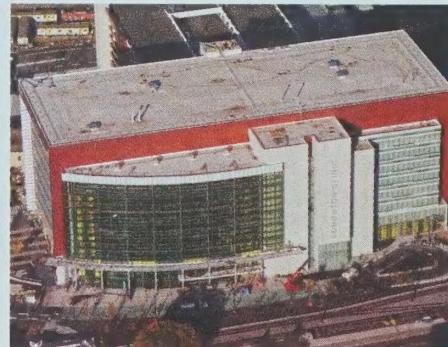


Photo: Richard Siemens

Materials and Resources

- Construction materials that contain recycled content.
- Construction materials that are manufactured locally and regionally (western Canada).
- Majority of wood products used are FSC certified.
- Use of low VOC materials (paints, carpet, green guard furniture, adhesives).
- Diversion of construction waste away from landfills.
- Variable frequency drives on ap-

propriate electric motors—an electronic device that controls motor speeds by varying the frequency of the electrical supply.

- Storage and collection of recyclables.
- Indoor Environmental Quality
- Building design includes two atriums, three light wells and exterior windows on all sides of the building that provide exterior light into the building at all levels.

- Shared access to light—open work stations are located at windows and / or near atriums, and light wells are in offices with windows located further away from exterior light sources, thereby providing shared access to light.
- Privacy film on all office and meeting room windows.
- High efficiency luminaires selected to obtain the best fit of energy efficiency, visual comfort and colour rendering.

Other Innovations

- Stair culture access design within the building at all levels.
- Major initiative towards a paperless environment by all building constituents.
- Consideration to provide an active instructional education program intent on highlighting the sustainable features in the building to create an awareness and appreciation of the benefits of green buildings and to improve the efficiency and quality of operations.



Sustainability Awareness Week

2011 Week of Events

Monday, October 17	Tuesday, October 18	Wednesday, October 19	Thursday, October 20	Friday, October 21
	Hybrid Vehicle Pool Display, with Fair Trade Hot Chocolate Celebration Plaza, 9am to 2pm		Electronics Round Up Varsity Parking Lot (east of 116 St and north of 87 Ave), 8am to 4pm	Fair Trade Friday ETLC Atrium, 9am to 3pm
		Sustainability Fair Main floor SUB, 9am to 3pm		
			Free Store SUB, 10am to 4pm	
				Local Food Highlights at Engrained Bistro Engrained Bistro, 2nd floor of ECHA, 10am to 2pm
				Coffee: a Comparison SUB, 9am to 3pm
				Lister Local Food Days Lister Market, 11am to 8pm
				Commit to One Simple Act on Campus Online
SAW Kick-Off Event QUAD, 11:30am to 1:30pm	CCIS Green Building Tour* Meet at CCIS - South entrance (nearest to Quad), 11am to 12:20pm	Devonian Botanic Garden Tour* Office of Sustainability, 2-06 North Power Plant, 10am to 2pm	Elk Burger BBQ QUAD, 11am to 2pm	ECHA Green Building Tour* Meet at ECHA - Northeast Entrance (corner of 114 St and 87 Ave), 11am to 3pm
SUSTAIN SU Free Bike Checks Celebration Plaza, 1pm to 4pm	Farm Radio CAB 281, 2pm to 3pm	Campus Sustainability Tour* Meet at Office of Sustainability, 2-06 North Power Plant, 12:30pm to 2pm	Sustainability and Student Attributes Alumni Room, SUB, 4pm to 5pm	Edmonton Waste Management Centre Tour* Meet at Office of Sustainability, 2-06 North Power Plant, 1pm to 4pm
Think Energy: How Sustainable is the Oilsands in Alberta? Myer Horowitz Theatre, SUB, 5:30pm to 8pm	SUSTAINexchange - Sustainable Selves: Health, Fitness, and Life Skills TELUS Centre 134, 6pm to 8pm	A Consumer Dilemma: Recognizing the Human Face CAB 229, 4pm to 5:30pm	Microcredit: a Marvel or Monster ETLC 2-009, 5pm to 6pm	Food Security, Globalization and Sustainability: A Panel Discussion ED South 221, 5pm to 6:30pm
	EcoCar: Sustainable Transportation - A Student Perspective ETLC E2-010, 5pm to 6pm	Social Change Café - Population Growth and International Development Good Earth Café, 5pm to 7pm		Opportunities in Sustainability Career Forum* CCIS 1160, 5pm to 7pm
	Film Presentation: EARTHLINGS Tory B-94, 5pm to 7:20pm	Energy Club Speaker Series: Biocomposites ETLC 2-009, 5:30pm to 7pm	Academic Facilities, Operations & Services Outreach & Engagement Student-Led Multiple Streams	Middle Eastern-themed Kitchen (cooking class)* International Centre, HUB Mall, 5:30pm to 8pm
				Voices of Nature Concert Myer Horowitz Theatre, 7pm to 9pm
				Also: Saturday, October 22 Sustainability Summit* Tory Building, 8am to 5pm U of A Open House - Carpool to campus and win Butterdome, 9am to 5pm Party with a Purpose Dinwoodie Lounge, 8pm to 11pm

* These events require preregistration. See website for details.



U of A dental hygiene program turns 50

Quinn Phillips

A lot can change in 50 years, and for the dental hygiene program in the Faculty of Medicine & Dentistry, that holds especially true.

The program celebrated its 50th anniversary in September, giving graduates and former professors a chance to reflect on its evolution. Program director Sharon Compton hosted the event and says she couldn't wait to hear from people who graduated in the first few years and who are still working.

"I was really excited to have these people come together to reminisce about where we've come in dental hygiene," said Compton, who is a graduate of the program. "I think we've accomplished a lot, and we've seen incredible progression in the education program as well as what our profession is now able to do."

Dental hygiene was primarily started to fulfil a need in the community-health sector of dental care, says Compton. Now hygienists are mainly seen in clinical practice.

"When the program began in 1961, there were only two practising dental hygienists in all of Alberta," said Margaret Berry MacLean, the first director and the driving force behind the creation of a dental hygiene program at the University of Alberta. "Now there are 1,500 graduates of the program in our province."

The need for hygienists keeps growing, and the scope of their practice keeps expanding.

Take Compton's new program that sends students to long-term care facilities in Edmonton to provide much-needed oral examinations. The hope, explains Compton, is that these students will be inspired to expand their practice to include treating elderly

patients in these facilities.

New this year for fourth-year students are two advanced practicum modules. One is in research, facilitated by Ava Chow; the other is in hospital-based care and long-term care facilities, and is led by Compton.

"The future of dental hygiene will see people earn master's and PhDs in addition to the bachelor of science degree, which we struggled for many years to get," said MacLean. "This will lead to greater diversity in employment."

And there is much more growth ahead, according to Compton.

"The research capacity is really very young in dental hygiene," she said, adding that it will be interesting to review the evolution of the program in years to come. "We could be looking back at how far we've come making research contributions in the oral health field," she says of other reunions in years to come. ■



When the dental hygiene program began in 1961, there were only two practising dental hygienists in all of Alberta.

Human ecology student showcases sustainability of textiles

Bev Betkowski

Quilts are comfy, warm, and most often associated with busy grannies in rocking chairs. But as a societal fabric, patchwork holds a place of honour, representing skill, thrift and recycling, a value that has become prevalent with time.

Now, Lauren MacDonald, a fourth-year U of A student of human ecology has stitched together four couture garments from recycled bits and pieces. The quilted creations are at the heart of a new exhibit that showcases the craft of quilting, examines the relationships between textile reuse of the Great Depression and textile reuse today and, through MacDonald's work, the place quilting has in contemporary society.

"Waste Not Want Not: Creating Through Recycling," which also features quilts from the U of A's Rosenberg Collection, looks at relationships between the reuse of textiles and larger social views on recycling and reuse of materials, and examines how perspectives have changed in the past 80 years.

"During the Great Depression in the '30s, recycling of material was a way of life," MacDonald said. "There was far less to waste, even in affluent

Lauren MacDonald stands with one of her quilted garments from her exhibit "Waste Not Want Not: Creating Through Recycling." (Photo: Bev Betkowski)

households. A lot of rural areas were still in a subsistence economy, so people traded things—you traded with a neighbour for scraps you wanted."

Those scraps, gleaned from old garments, provided useful and beautiful goods for little cost. "Textiles were expensive, so quilts could often be constructed for much less than the price of a blanket," said Vlada Blinova, manager of the University of Alberta's clothing and textiles museum collection. Today, perspectives on recycling have shifted. People recycle for many reasons—because they care about the environment, because there is financial benefit, or because it is convenient.

"It is no longer a necessity for most people to wring the last bit of use from old clothing and other household textiles, so the focus of recycling has changed, and this exhibit explores that phenomenon," Blinova said.

The exhibit's Depression-era quilts, fashioned from reused fragments, provide a contrast to the women's edgy jacket and skirt sets crafted by MacDonald, who is pursuing a bachelor of science degree majoring in clothing and textiles, with a minor in design and product development.

MacDonald, fortified by a visit to a thrift store and donations of castoffs from friends and family, used old bed sheets, curtains, swatches from discarded fabric books and even a man's pair of trousers to stitch together two sassy, classy outfits. True to the art of quilting, she did some

patching and embroidery, along with a bit of dyeing, but the result doesn't look like grandma's quilt.

"That's been done. I do think traditional quilts are beautiful, but for my garments I wanted something different, to show that quilting can be used in innovative ways."

That said, MacDonald gained a new appreciation for the intricate art of quilting as she pieced her creations together. "It requires meticulous, careful sewing. There is a lot of layering, a lot of bulk."

Her outfit is set off by a backdrop of quilts from the Rosenberg collection, chosen for the materials that were used in their making: recycled scraps of feed sacks, blankets, table linens, even wedding dresses and ties.

The extensive collection of 677 vintage and antique quilts was donated to the U of A in 2006 by Alvin and Gloria Rosenberg, and reflects varied patterns and forms.

MacDonald hopes the exhibit will give a fresh view on an old tradition. "This allows us to view quilting as an art or a fashion, rather than as a traditional link to the home."

"Waste Not Want Not: Creating Through Recycling" is on display until March 12, 2012, in the gallery of the main foyer in the Human Ecology Building on campus. Exhibit hours are 7 a.m. to 9 p.m. Monday to Friday, 8 a.m. to 4 p.m. Saturday and noon to 4 p.m. Sunday. ■

Untold mountain histories edge into the light

Jane Hurley

Every mountain is more than ancient granite or snowy grandeur set in a picturesque landscape. Each contains a story, and it's these stories that rivet archival historian Zac Robinson, the Faculty of Physical Education and Recreation's newest researcher.

A long-time mountaineer of Métis heritage, Robinson focuses on the little-told and shrouded histories of those who explored the Canadian Rocky Mountains and the Columbia Mountains, the two most significant of Canada's mountain ranges.

"I'm primarily interested in the stories that get pushed to the periphery,"



Konrad Kain

says Robinson. "Western Canadian history has for too long neglected the mountains, primarily I think because it's where people went to play and not settle. So much of its human history needs retrieving and careful positioning within larger western and Canadian histories."

Robinson is currently at work on an edition of writings by Austrian Conrad Kain, arguably one of the most famous and admired of mountain guides in 20th-century Canada. But it's not the story of Kain's fears as a guide or mountaineer that Robinson is interested in, it's the personal story of the working-class guide revealed in 142 letters written by Kain between 1906 and 1933 to

his lifetime friend, Amelie Malek, who kept each one, then, after his death in Canada in 1934, painstakingly typed them out. "The letters were lost during the Second World War, when Vienna (where Malek lived) was sacked, but they resurfaced and were recovered," says Robinson, who says the tale of the letters themselves, their loss and recovery, is as captivating as the man revealed in the letters.

"They've survived multiple ocean crossings, Nazis and burning buildings, and even the 2004 tsunami in Thailand, where they were being reviewed by a vacationing historian before being sent to Canada. He apparently waded to safety in waist-high water with them in his arms," he says.

Robinson's own interest in the mountains came via a master's degree in anthropology before embarking on doctoral studies to examine the history of mountaineering in Canada.

"Growing up in lake-country Ontario, I first came to mountains and mountaineering through literature, through books. And by the time I permanently moved out West in the late 1990s, I was already hooked on all things mountains." This fall, he'll bring his passion for the history of sport, recreation and tourism to the classroom, where he'll teach two second-year classes: one on the principles of tourism and another on the history of leisure and sport in Canada.

As for future research, Robinson says there's no shortage of inspiration and opportunity. "Post-colonial theorists and writers have challenged us in the 21st century to look at history by connecting culture and empire, geography and literature. Bringing the history of the Rockies and the Columbias into this larger network of relationships has preoccupied me up to now, and I'm still a long way from the top." ■



Zac Robinson

Hypothetical speaking can influence behaviour, promote bias

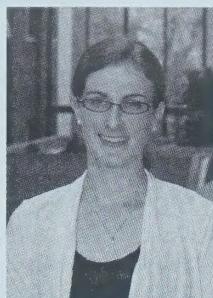
Jamie Hanlon

Hypothetically speaking, if someone told you that a hypothetical question could influence your judgments or behaviour, would you believe them?

University of Alberta Business researcher Sarah Moore's research has shown that hypothetical questions are not as innocuous as one would believe. In a study recently published in the journal *Organizational Behaviour and Human Decision Processes*, Moore and her colleagues found that hypothetical questions can be used to influence people's behaviours and opinions. The problem exists, she says, because people are unaware of the potential for these questions to bias behaviours.

"In general, we have theories about when people are trying to influence us. For example, we have some defenses against advertising," Moore said. "But hypothetical questions are wolves in sheep's clothing because we don't think of them as being influence tactics."

Hypothetical questions, which are frequently used in jury selection and political polling, can be used to create a bias or further entrench an existing belief, says Moore, and that the purpose of using these questions in a pre-trial examination of potential jurors is to detect bias. However, one study revealed that pre-trial questions can actually create



Sarah Moore

bias. Two groups participating in a jury study were asked the following question: "Hypothetically speaking, if the individual in this court case was a member of a gang, would that influence your ability to be impartial?"

One group, the debiased group, was told that the question was developed by lawyers and should not influence their judgments; this debiased group was less likely to convict than the group that was not cautioned about letting the questions bias them. Moore says that by not reminding them of the hypothetical nature of the question, the biased group seemed to view the content as fact rather than a supposition.

"This pre-trial questioning in the jury system, particularly in the United States, is supposed to fix bias, but can actually introduce it instead," she said. "It goes back to being aware that the question can influence you."

Moore says a popular form of questioning used by political parties, known as push polling, often uses a negative message to which a person will respond. She says that hypothetical questions give us new information that may or may not match our stereotypes and attitudes. The problem with this type of questioning, she says, lies with the fact that the word "if" is clouded by the negative tone being put forth, one that becomes a truth rather than an imaginary scenario.

"For instance, if I introduce some-

one to new, hypothetical information about a certain politician being crooked, even though the information isn't true, the question will influence them over time because it matches their existing negative beliefs about politicians," said Moore. "They'll become more negative about that politician and less likely to vote for him, and their attitude about politicians in general will become more negative."

The key to preventing bias in hypothetical questions, Moore says, is to recognize the potential influence of the question. Respondents need to recognize that the information being introduced and presented to them is hypothetical and not factual in nature. She says that the more people think about the hypothetical question, without taking into account that the information provided is suppositional, the stronger the effects of bias appear to be. Recognizing that these types of questions can be used to influence one's response, however, is the first line of defense in preventing hypothetical questions from influencing one's thoughts or feelings.

"When people are made aware that the situation is hypothetical or that people are trying to influence or bias them by asking them these questions, then they are able to correct for that bias," said Moore. "They can then think about how they actually feel about the question and not be overly influenced by it."

"Hopefully, as people become more aware of this issue, hypothetical questions won't work as well to sway us."

Med student works to improve women's health

Raquel Maurier

A University of Alberta student in both medicine and public health will soon publish research about how fixing the damage from a labour and delivery complication can change African women's lives.

This summer Catherine Arkell worked with the African Medical and Research Foundation's Outreach Program in Kenya. The primary focus of her public health internship, which she did in collaboration with the foundation, examined repairing physical damage from a common post-labour and delivery complication known as vesicovaginal fistula.

It is estimated that more than three million women around the world suffer from this condition, which is caused by labour that is allowed to progress too long, creating an abnormal opening between a woman's reproductive tract and either her urinary tract or gastrointestinal tract. The baby's head pushes too long and too hard on a woman's pelvis, damaging the soft tissues in the area. The tissue later dies and sloughs away, leaving a hole, which often leaks urine or feces.

"After women labour for one day, two days or even five days, the labour usually ends because their babies die," says Arkell. "In Africa, when you have this condition you are very stigmatized. You're considered unclean; you're uncomfortable, and a lot of women's husbands kick them out, or as they call it, 'chase them away,' because organ damage is so severe a lot of these women can't have children."

Arkell wanted to know if these women's lives went back to normal after they had a simple surgical procedure to repair the damage, a surgery she was able to scrub in on a few times this summer thanks to her medical training. Her research project focuses on the long-term social and economic impacts and outcomes for women who suffer from vesicovaginal fistulas. She'll be presenting her unexpected findings at conferences this fall, with the public health research to be published sometime next year.

Arkell, who is in her third year of medicine, has made regular treks to Africa since 2005 and has travelled to Kenya every year since 2009. She took one year off from medical school last year to work on her master's in public health, with a primary focus on global health, through the School of Public Health at



Catherine Arkell worked to improve women's postpartum health while on a health internship in Kenya. (Supplied photo)

the U of A. She will graduate with her master's degree in public health in June 2012 and her medical degree in 2013.

In the summer of 2010, she spent a total of nine weeks in Kenya for her medical electives. For five weeks, she worked with a doctor in a rural, remote village in southern Kenya. The clinic had no running water or electricity. She spent the remaining four weeks working with an obstetrician-gynecologist in rural western Kenya.

When she returned to Kenya this summer, she went back to the clinic in the remote Kenyan village. She also met with the ob-gyn she had worked with previously and donated some operating-room supplies. She is heading back to Kenya on Oct. 15 to work with the ob-gyn again for three weeks for another medical elective.

Arkell is looking forward to returning to Africa, and to further improving women's health in the regions she has visited. She would like to continue to make regular trips to Africa to help women with this problematic but treatable medical condition.

"I really want to bring more awareness to this issue; it's something I'm very passionate about," she says.

"These women don't have access to emergency obstetrical care and don't get information on what to do when they have vesicovaginal fistulas, which is very simple to repair."

THE ERNEST C. MANNING AWARDS FOUNDATION
CELEBRATION OF INNOVATION

SYMPOSIUM

MODERATOR:
Jay Ingram

KEYNOTE:
U of A President
Dr. Indira
Samarasekera, O.C.

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Manning Innovation Awards 30th
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UNIVERSITY OF ALBERTA NSERC CRNSG Alberta Innovates Technology Futures

University of Alberta, Centennial
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festival
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AN EVENING WITH
MICHAEL ONDAATJE

Award-winning writer Michael Ondaatje, author of the critically acclaimed novel *The English Patient*, is coming to Edmonton's Winspear Centre, Nov. 22 at 7:30 p.m.

Join the University of Alberta's Festival of Ideas for a live stage interview with Ondaatje, a reading from his latest book, *The Cat's Table* and a Q-and-A session with the audience. A book signing will follow.

Tickets on sale Oct. 11, 2011 online at the Winspear box office or Tix on the Square.

UNIVERSITY OF ALBERTA

news [shorts]

folio presents a sample of some of the research stories that recently appeared on ExpressNews, the U of A's online news source, and other campus news sources. To read more, go to www.news.ualberta.ca.

Name changes at registrar's office

The provost and vice-president (academic) has approved an official name change of the Office of the Registrar and Student Awards to Office of the Registrar, effective immediately. The suggestion to change the official name originated from registrar's office staff, including the Student Awards Unit themselves, as there are a number of units in the office that are equal in operational/administrative stature and the name was deemed exclusionary and not adequately descriptive. The impact of the name change is considered minimal, and there are no changes to the organizational structure of the office. Further, the web address for the registrar's office is no longer www.registrar.ualberta.ca; instead, it is www.registraroffice.ualberta.ca. Web traffic will be directed from the original site to the new domain name until July 2012, but documentation should reflect the new name.

Program wins national access to information award

The University of Alberta's Information Access and Protection of Privacy program has won the inaugural Grace Pepin award, given by the Office of the Information Commissioner of Canada, for exhibiting "an exceptional contribution to the promotion and support of the principles of transparency, accountability and the public's right to access information held by public institutions."

Since its inception in April 2000, the program, which is offered through the Faculty of Extension, has provided hundreds of students worldwide with the theories, concepts, issues and best practices involved in the proper administration of information rights legislation. Delivered exclusively online, IAPP curriculum is developed and taught by some of the nation's leading experts in information access and protection of privacy.

"As a faculty, we are very proud of the role we play in bringing together academic expertise with community groups to meet the learning needs of stakeholders," said Wayne MacDonald, manager of the program, about receiving the award.

Canada Savings Bonds Online E-Campaign

Human Resource Services is participating in the Canada Savings Bonds online E-Campaign, a secure online environment that allows monthly paid staff to sign up for the Canada Savings Bonds payroll deduction or make changes to existing plans. Monthly paid staff will be able to access the E-Campaign site from Oct. 3 to Oct. 31. For more information or to register, go to [https://www.e-campaign.csb.gc.ca](http://www.e-campaign.csb.gc.ca).

Rehabilitation medicine research awards announced

This year's Faculty of Rehabilitation Medicine research awards go to Greg Kawchuk and Marilyn Langevin, research stars at the faculty who continue to "poke and pry" with a purpose.

Kawchuk received the inaugural Excellence in Mentoring Research Students Award for his dedication to his students and their research careers. The associate professor in physical therapy has been described as "a world-class researcher with high productivity and great innovation." He holds a Canada Research Chair in Spinal Function and is an expert on spinal disorders (back pain). He is involved in developing new technologies to assess spinal structure and function. These technologies are then used to evaluate various clinical interventions.

Langevin is the inaugural recipient of the Faculty of Rehabilitation Medicine Excellence in Research Award. The assistant professor in speech pathology and audiology has published several papers (nine in the past five years) on stuttering and the psychological, emotional and social impact of stuttering on young children.

Golden Bear helps Canada to 4th at lifesaving games

University of Alberta business student and Golden Bears swimmer Ian Leitch helped Canadian athletes to a fourth-place finish at 2011 RLSS Commonwealth Lifesaving Championships last week in Durban, South Africa. Leitch placed fourth in the 200-metre obstacle swim, third in 100-metre tow with fins and helped the men's 200-metre obstacle relay team to a fifth-place finish. He also participated in the men's 200-metre medley relay.

This is the first Commonwealth Lifesaving Championships since Edmonton hosted the event in 2009. Competitive lifesaving is a sport recognized by the Canada Games Federation and the International Olympic Committee. The Lifesaving Society, Canada's leading body on lifeguarding, is a charitable organization working to prevent drowning and water-related injury through its training programs, public education, water-incident research, safety management services and lifesaving sport. Annually, more than 800,000 Canadians participate in the society's swimming, lifesaving, lifeguard and leadership training courses.

Henry Singer Awards

Eleven past recipients, and over 600 retailers, students, and professors, were on hand Oct. 4 to honour Heather Reisman, CEO, of Indigo. Reisman is the founder and CEO of Indigo Books & Music Inc. and Chair of the Board Kobo Inc.

The Henry Singer Award was established at the Alberta School of Business in 1992 to recognize an exceptional leader in the retailing sector and to honour a remarkable individual, the late Henry Singer. The Henry Singer Award recipient is as committed to building their community as they are to building their business.

Retailing awards were also presented to professor Adam Finn, in recognition of more than 20 years of relevant research, and to alumnus Nelson Tonn of Fountain Tire.

First multicellular model of a rare disease developed

Quinn Phillips

Research groups worldwide have tried to develop a simple model of a rare, fatal disease called Zellweger Syndrome, but none has succeeded, until researchers at the Faculty of Medicine & Dentistry at the University of Alberta did so in fruit flies.

Researchers have been stumped about how to make a multicellular model they can use to develop treatments. The chair of the Department of Cell Biology, Richard

Rachubinski, and his PhD student Fred Mast, with the help of fruit fly expert Andrew Simmonds, have been successful in developing a model of Zellweger Syndrome. This syndrome is the most common type of peroxisome biogenesis disorder, a group of deadly genetic diseases that claim the lives of children, usually before they reach their first birthday.

“This really is what one calls translational research. It’s going from basic molecular studies, to the hopeful development of compounds, to the application in patients.”

Richard Rachubinski

"Mating two parents that have the mutated gene gave us a mutant fly that mimicked the human phenotype," said Rachubinski. The fruit fly is ideal for medical research because its development can be studied from fertilization through to adulthood, and the development is much more rapid than in mice or humans.

"The periods that you can allow for development are much shorter in flies, so you can look at things much more quickly," said Rachubinski. "You get two generations per month."

As the research group moves forward testing compounds that could be used as pharmaceuticals to treat Zellweger Syndrome, they only have to use minute amounts compared to what would be needed for other laboratory models. And it helps that part of the study included a comprehensive gene analysis that will help them monitor the efficacy of compounds

and point to new gene targets for pharmaceuticals.

This finding is a major step forward, and it has clinicians at Johns Hopkins and McGill universities excited. They have paired up with the U of A's scientists and hope to take what the researchers learn in flies right to patients.

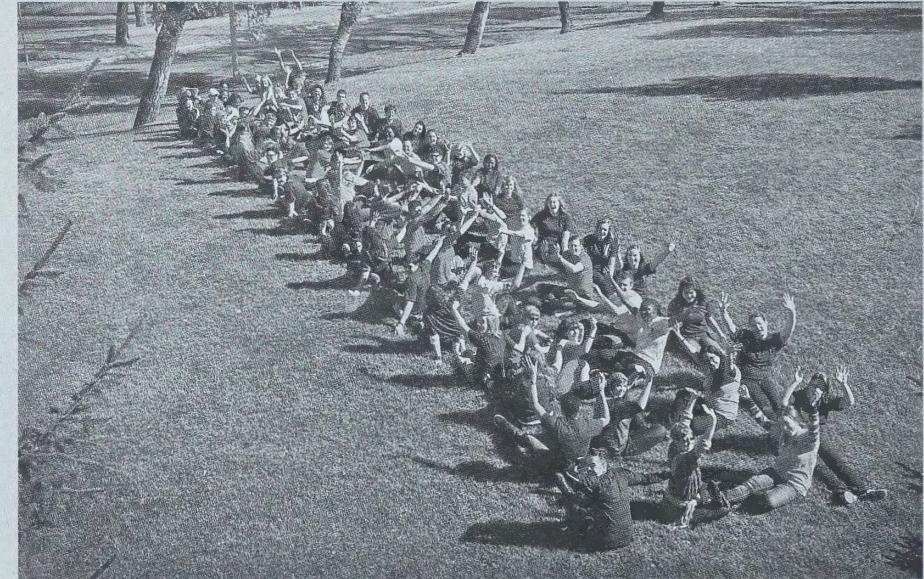
"We have a plan all the way to the patient," said Rachubinski. "This really is what one calls translational research. It's going from basic molecular studies to the hopeful development of compounds to the application in patients."

"We hope it will be a cycle, in that we feed to the clinicians information that they will then use to generate more questions," said Simmonds. "We want them to then feed the questions right back to us to work out."

For Rachubinski, this major advance, which is published in *Disease Models & Mechanisms*, is a great accomplishment. He has been working to understand peroxisome biogenesis disorders for almost 30 years.

"It's what I've worked for all my life and I hope to see in the next few years that we can actually move it on even farther and look towards the treatment of these patients," he said. ■

Modelling chemistry



Students and staff at Campus Saint-Jean join form a giant molecule to help celebrate the International Year of Chemistry Sept. 16.

classified ads

ACCOMMODATIONS FOR RENT

BELGRAIVA. Beautiful, quiet 2 bedroom, 2 bathroom condo near the university. Executive features throughout. Close to LRT. 11650 79 Ave. \$2,200/month. Call Michael Jenner or Janet Fraser at 780-441-6441 or email jennfra@interbaun.com. Gordon W.R. King & Assoc. Real Estate Corp.

IN QUIET MALMO. Southgate 4 bedroom home. Nicely renovated, detached garage, close to LRT. \$1,900/month. Call Michael Jenner or Janet Fraser at 780-441-6441 or email jennfra@interbaun.com. Gordon W.R. King & Assoc. Real Estate Corp.

CAMPUS SAINT-JEAN AREA. Executive 4 bedroom. Furnished. New spectacular features, top of the line everything. Close to park. Bus service, schools, and shopping. \$2,900/month. Call Michael Jenner or Janet Fraser at 780-441-6441 or email jennfra@interbaun.com. Gordon W.R. King & Assoc. Real Estate Corp.

UNIVERSITY. Short-term 1 bedroom, close to university. Furnished, 4th floor

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RHATIGAN, RIVERBEND. Executive home furnished. Minutes from all amenities, schools, and parks. Spectacular home with fine furnishings. \$2,500/month. Call Michael Jenner or Janet Fraser at 780-441-6441 or email jennfra@interbaun.com. Gordon W.R. King & Assoc. Real Estate Corp.

U OF A / WHYTE AVENUE. 10417 85 Ave. Furnished 2 bedroom house with updated amenities and renovated bathroom. \$2,200/month. Contact Darren Singh 780-989-2963 or cell: 780-710-7299.

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OLD STRATHCONA. 954 sq. ft. adorable character home. Open design features hardwood, gas fireplace, eat-up counter, lots of cupboard and counter space in kitchen. 2 bedrooms with good closet space. Beautiful bathroom. 6 ft basement dry and useable. Quaint yard. Single car garage. Property lovingly maintained. Close to U of A or downtown. \$418K. Call Kim Stubbs RE/MAX Accord. 780-974-3357.

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Providing imaginable futures for sexual- and gender-minority youth

Matthew Burns

Statistics show that Alberta's teens who identify themselves as lesbian, gay, bisexual, transgender, two-spirit, queer or questioning are exposed to more incidences of bullying, suicide and homelessness than their heterosexual peers. In Canada, these sexual and gender minority teens are three times more likely to commit suicide and, in Alberta, they are 13 times more likely.

André Grace and Kristopher Wells, both from the Faculty of Education's Institute for Sexual

Minority Studies and Services, held a lecture Sept. 28 at the U of A Calgary Centre to an audience of more than 90 alumni, educators, school administrators, government and community representatives to discuss their leading-edge work in preparing youth to not only survive often hostile school, com-

munity and even family environments, but also to thrive within them.

"Sexual- and gender-minority teens face everything from health problems to a lack of understanding and support within and outside of the school," says Grace, the director of the institute.

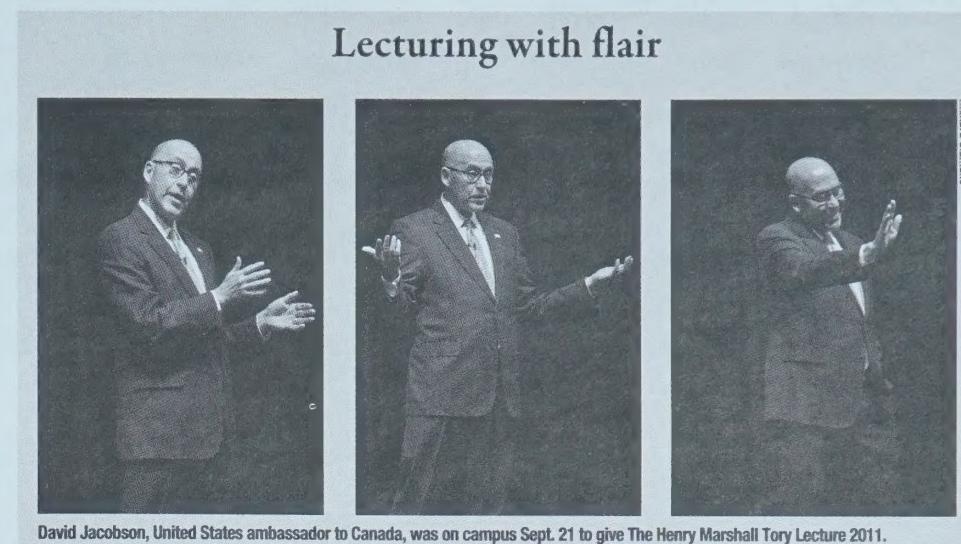
"When negative forces like these are faced daily and without a sense of support from caring individuals to deal with them, teens can lose hope and will consider unimaginable options like suicide."

Grace and Wells' work demonstrates that when key conditions are in place to support youth, such as policy,

inclusive curriculum and mentorship, the circumstances and trajectory of their development can be positively altered. Support networks, both within and outside of schools, as well as access to trusted adults, can help these youth feel like a valued part of a larger community.

André Grace

"Our goal with the camp [fYrefly] is to work with sexual and gender minority youth so they can learn to let their own inner light and energy shine bright, even in what may seem like dark times."



David Jacobson, United States ambassador to Canada, was on campus Sept. 21 to give The Henry Marshall Tory Lecture 2011.

Richard Siemans

Wells said that creating an environment where supports can be taught and practised is needed to make that support have meaningful impact. He talked about the camp, Camp fYrefly, he and Grace founded in 2004. The summer camp's purpose is to help youth grow into resilience by focusing on individual development, positive peer socialization, learning leadership skills and being safe and healthy.

"fYrefly is an acronym, which means: 'fostering, Youth, resiliency, energy, fun, leadership, yeah!'" says Wells. "Symbolically, the firefly, like these youth, goes through a metamor-

phosis in which it changes and begins to produce its own light and energy. Our goal with the camp is to work with sexual and gender minority youth so they can learn to let their own inner light and energy shine bright, even in what may seem like dark times."

At the camp, youth participate in more than 20 workshops, ranging in subjects from drama and music to visual arts and healthy relationships. By the time camp ends, fYrefly youth leave with a "resiliency toolbox" filled with vital peer, adult and community networks as well as newfound leadership skills and

experiences to take with them into the upcoming school year.

Demand for Camp fYrefly's award-winning program is strong and growing. With locations now in Edmonton and Saskatchewan, the hope is that a third location can be opened in Southern Alberta.

For information on Camp fYrefly, visit <http://www.fyrefly.ualberta.ca/>. For more information on iSMS, visit <http://www.ismss.ualberta.ca/>. Finally, for more information on upcoming lectures and other programming for the U of A in Calgary, please visit www.calgary.ualberta.ca/.

talks & events

Talks & Events listings do not accept submissions via fax, mail, email or phone. Please enter events you'd like to appear in folio and on Express News at: www.uofaweb.ualberta.ca/events/submit.cfm. A more comprehensive list of events is available online at www.events.ualberta.ca. Deadline: noon one week prior to publication. Entries will be edited for style and length.

Until Oct. 21

University of Alberta United Way Campaign. Fill in your pledge form and you will have a chance to win an airline ticket on United Airlines. For more information on a pledge package, go to <http://www.uofaweb.ualberta.ca/unitedway>

Until Oct. 23

2011 Project Kenya. Photography, artifacts and information about Project Kenya and partner, entitled "Me to We." Bibliothèque Saint-Jean, Campus Saint-Jean. Open during normal library hours.

Oct. 12 & 19

Questioning Answers and Answering Questions. Every Wednesday until Nov. 2, people will join together at St. Stephens College to explore faith issues. Mornings with George Rodgers (9:30 a.m.–noon) and afternoons with Sandy Prather (1:30–4 p.m.). For more information, email yhuang1@ualberta.ca.

Oct. 12

The Educated Luncheon Lecture. Billy Stream, professor in the Faculty of Physical Education and Recreation, will be on hand to talk about his work. The \$10 fee includes a lunch to go along with this opportunity to learn and network with fellow alumni. Sessions will be held the second Wednesday of each month at noon in room 2-957 Enterprise Square (10230 Jasper Ave – former Bay Building). To register online call 780-492-1835 or e-mail angela.tom@ualberta.ca.

Economics Dept Micro Seminar. Evren Damar from the Bank of Canada will be on hand to give this talk. 3:30–5 p.m. 8-22 Tory Building.

Oct. 14

Music at Convocation Hall presents Brahms Cello Sonatas. This classic series celebrates the talents of music's teaching faculty alongside some of the world's leading visiting artists. Tanya Prochazka, cello, and Janet Scott Hoyt, piano. Violin and piano arranged by Julius Klengel. Tickets at the door. 8–10 p.m. Convocation Hall, Old Arts Building.

Oct. 15

Celebration of Innovation Symposium. A series of lectures, moderated by Jay Ingram, celebrating research and innovation. Young researchers will also be featured through a series of poster presentations. The event is being held in conjunction with the Manning Innovation Awards 30th Anniversary Gala. The lecturers will include previous Manning Award winners and prominent University of Alberta researchers. Noon at Centennial Centre for Interdisciplinary Science. www.manningawards.ca/docs/hold-the-date-2011.pdf.

Oct. 16

Toby and Saul Reichert Holocaust Lecture. The Wirth Institute is pleased to welcome Norman Naimark, professor at Stanford University to present this year's lecture, entitled "The Holocaust in the History of Genocide." 4–6 p.m. Telus Centre.

Oct. 17

Music at Winspear. Celebrating the Leaders of Tomorrow: Award Winning Graduate Student Performers and Composers. Featuring performances by Wendy Nienhuis, Chee Meng Low, Sandra Joy Friesen, Colin Labadie & Daniel Brophy, Yoana Kyurkchieva & Viktoria Rieswich-Dapp. 8–10 p.m. Winspear Centre for the Arts. Tickets available in advance through the Department of Music or at the door on the evening of the performance.

Oct. 20

Eric Geddes Breakfast Lecture with Mayor Stephen Mandel. 7–8:30 a.m. Royal Glenora Club, 11160 River Valley Road. Cost is \$30 per person or \$240 for a table of eight. For more information, email jacqueline.kokic@business.ualberta.ca.

"The Making of an Opera: On the Eve of Ivan Kupalo." Anna

Pidgorna of the Department of Music, University of Calgary, will make a presentation of this chamber opera. 7–9 p.m. 227 Athabasca Hall.

Oct. 21–25

Campus Auction Market: Online Auction. Many items are up for auction: travel, restaurant certificates, golf packages and much more. Go to www.campusauctionmarket.com to place your bid in support of the campus United Way campaign.

Oct. 21

Health Ethics Seminar. "Why Is There Concern About Organ Donation After Cardiac Death?" Noon in classroom F (2J4.02WMC) University of Alberta Hospital.

Oct. 24

UAlberta/GMU Jazz Bands in

Concert. The UAlberta/GMU Big Bands present an evening of jazz music. Two 19-piece ensembles directed by Kent Sangster and Tom Dust play the music of Count Basie, Maynard Ferguson, Neal Hefti, George Gershwin, Buddy Rich, and others. Arts and Convocation Hall.

Gardiner Symposium "Minds that Matter." Gregg Semenza, professor at the Johns Hopkins University School of Medicine will give a talk entitled "Regulation of Oxygen Homeostasis by Hypoxia-Inducible Factor 1;" Shizuo Akira from Osaka University in Japan, "Innate Immunity and Pathogen Recognition;" Nicholas White, Mahidol University in Thailand, "Malaria." 2–5 p.m. Bernard Snell Hall, Walter Mackenzie Health Sciences Centre.

Economics Dept Micro Seminar. Anke Kessler from Simon Fraser University. 3:30–5 p.m. Room 8-22 Tory Building.

laurels

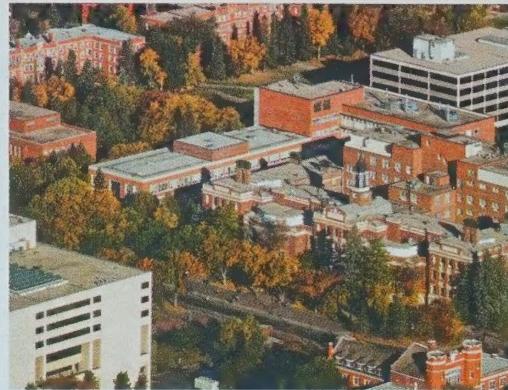
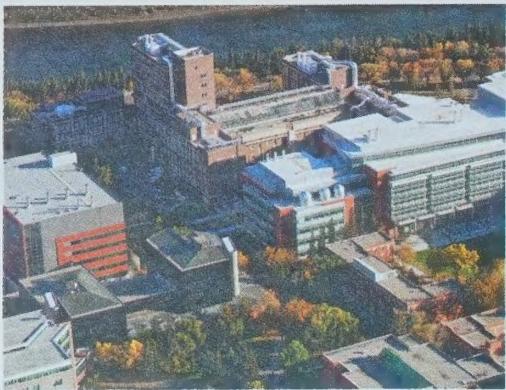
The Certified General Accountants Association of Canada announced in September that James Gaa, professor of accounting at the U of A Alberta School of Business, has won as the John Leslie award recipient for 2011. It is awarded to CGAs who have achieved national recognition for outstanding business endeavours, public service, charitable involvement, humanitarian acts, outstanding artistic achievement or special achievement in overcoming physical adversity.

Faith Davis has been appointed chair of the Department of Public Health Sciences in the School of Public Health. She has spent her time living, studying and working across the United States since completing her undergraduate degree at the University of Alberta and working at the Cross Cancer Institute for several years. Most recently, she has held the role of research associate dean and alternate director of graduate studies with the

School of Public Health at the University of Illinois at Chicago. She will be returning to the U of A in January 2012.

Glynnis Hood, associate professor in the Department of Science at the Augustana Campus, University of Alberta, is the recipient of the 2011 CAFA Distinguished Academic Early Career Award. The CAFA Distinguished Academic Early Career Award recognizes academic staff members who, at an early stage of their careers, through their research and/or other scholarly, creative or professional activities, have made an outstanding contribution to the wider community beyond the university.

Former U of A writer-in-residence Lynn Coady has been shortlisted for the \$50,000 Scotiabank Giller Prize for her fourth novel "The Antagonist." Coady was writer-in-residence for the 2008–09 academic year.



the
BackPage

There is nowhere like the University of Alberta on a fall day. In an effort to capture the campus at its prettiest, University of Alberta photographer Richard Siemans hitched a ride on a helicopter. This is what he saw.

BIRDS' EYE

VIEW

